Figure 1

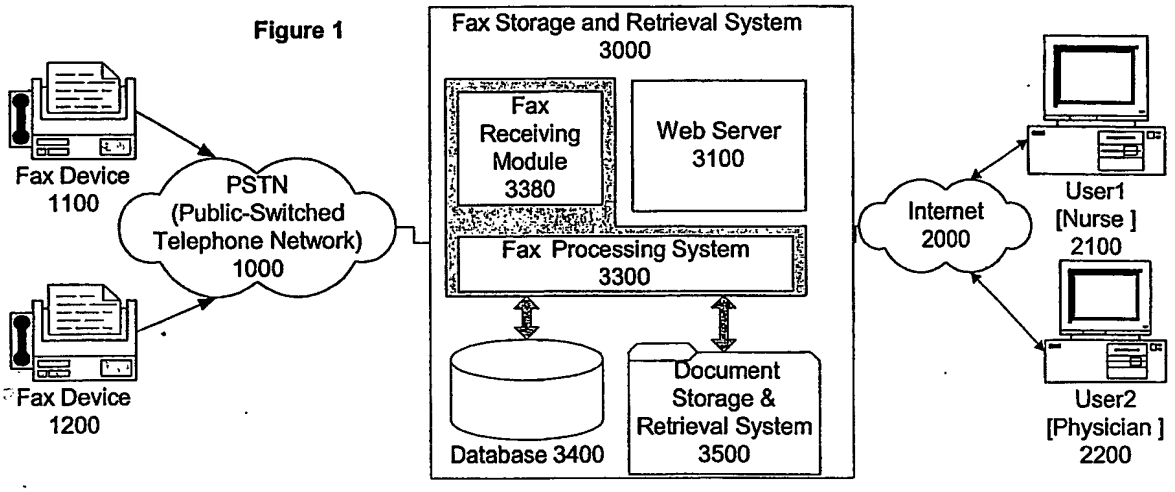

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Figure 2

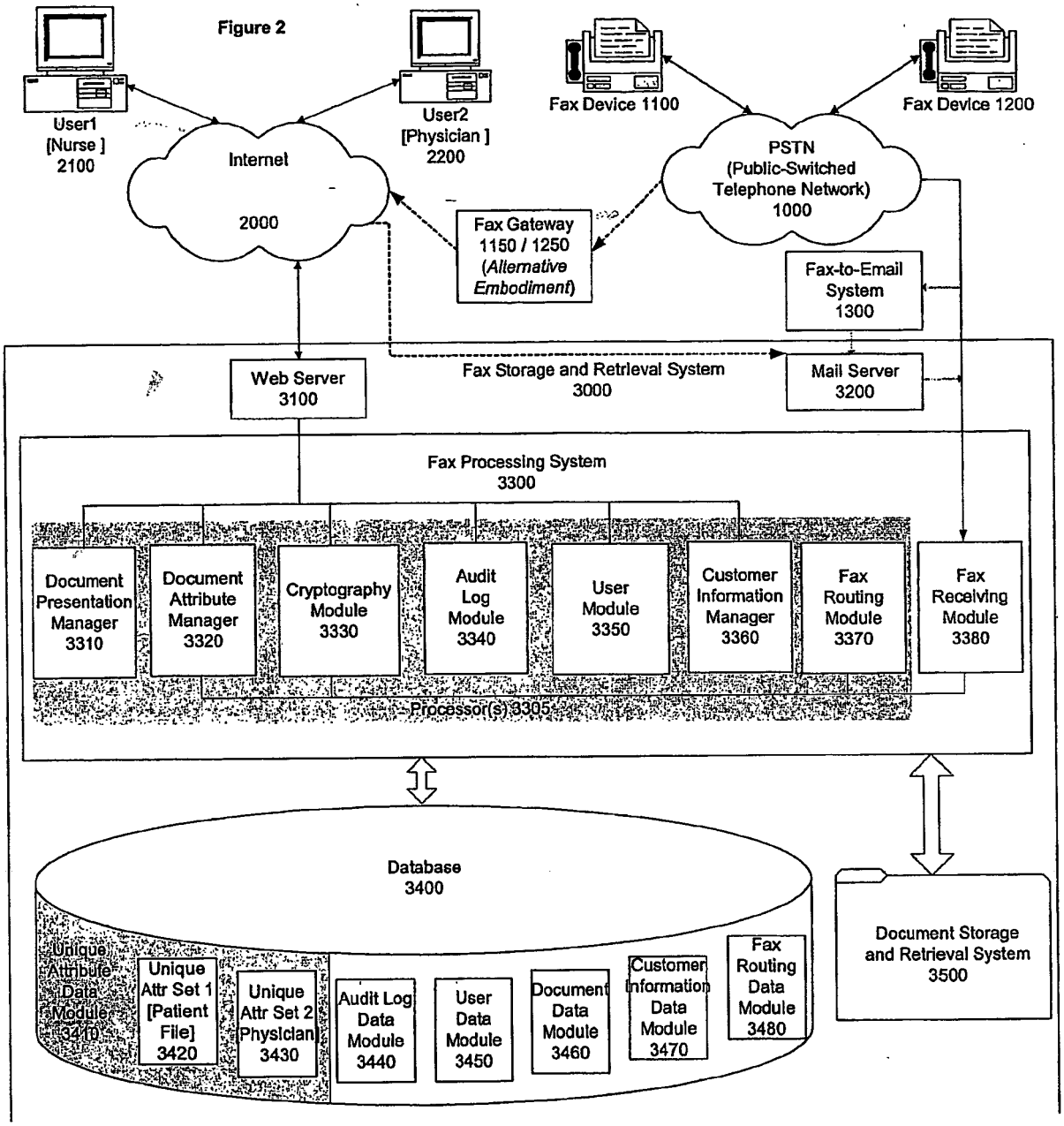
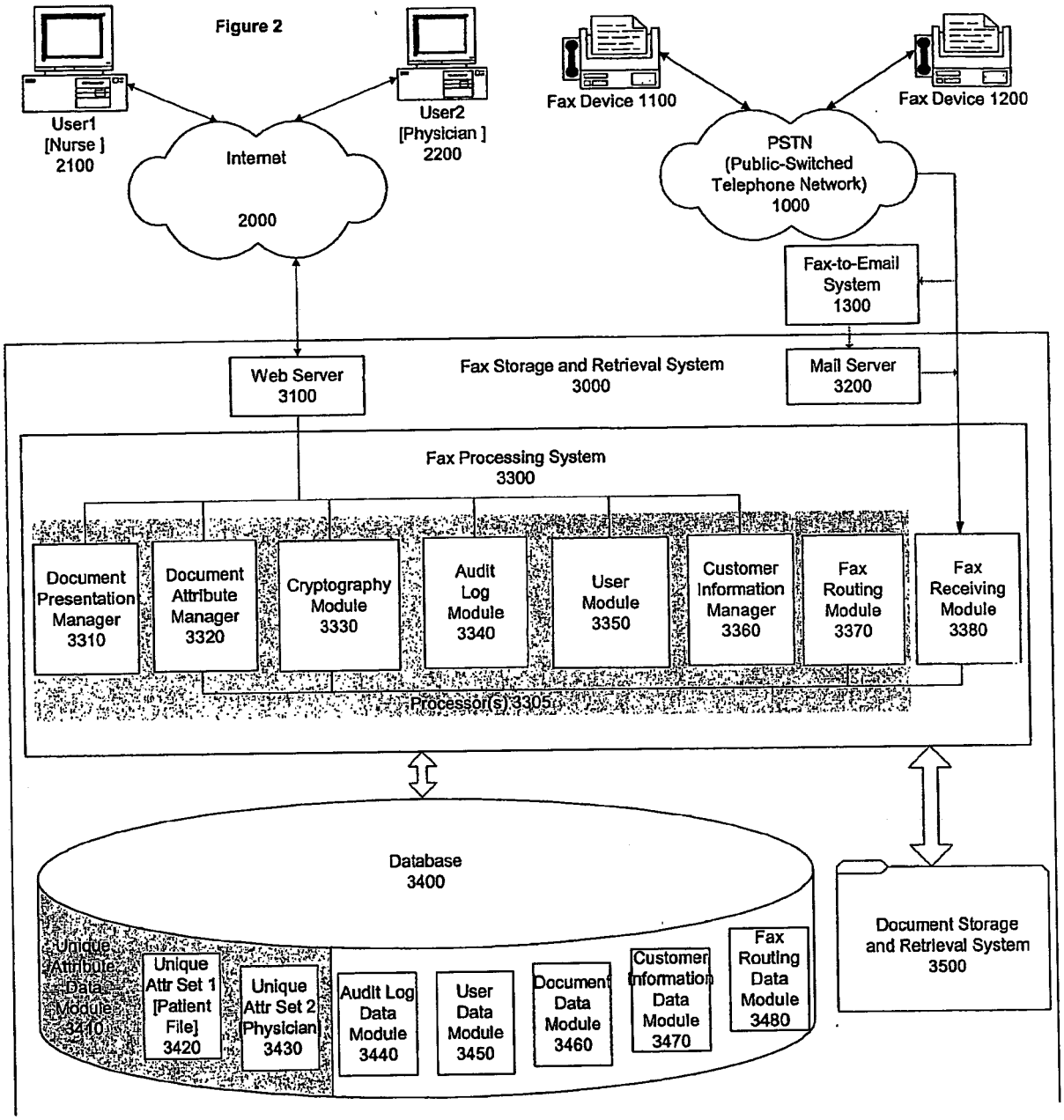

User1
[Nurse]
2100
User2
[Physician]
2200
Fax Device 1100
Fax Device 1200
Internet
2000
PSTN
(Public-Switched
Telephone Network)
1000
Fax Gateway
1150 / 1250
(Alternative
Embodiment)
Fax-to-Email
System
1300
Web Server
3100
Fax Storage and Retrieval System
3000
Mail Server
3200
Fax Processing System
3300
Document
Presentation
Manager
3310
Document
Attribute
Manager
3320
Cryptography
Module
3330
Audit
Log
Module
3340
User
Module
3350
Customer
Information
Manager
3360
Fax
Routing
Module
3370
Fax
Receiving
Module
3380
Processor(s) 3305
Database
3400
Unique
Attribute
Data
Module
3410
Unique
Attr Set 1
[Patient
File]
3420
Unique
Attr Set 2
Physician
3430
Audit Log
Data
Module
3440
User
Data
Module
3450
Document
Data
Module
3460
Customer
Information
Data
Module
3470
Fax
Routing
Data
Module
3480
Document Storage
and Retrieval System
3500

Figure 2


User1
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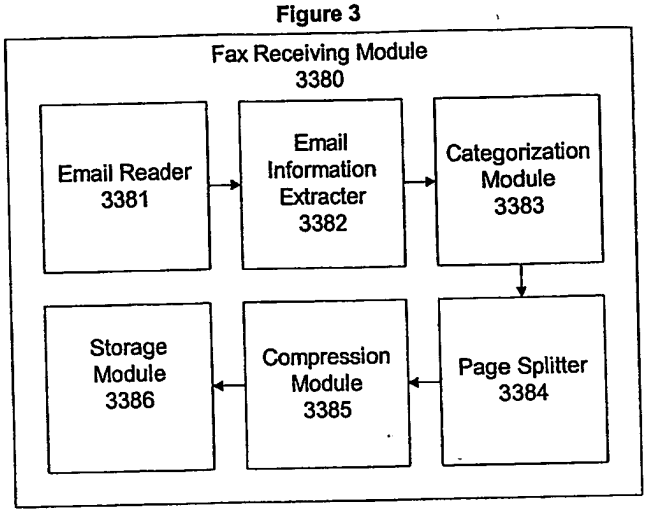
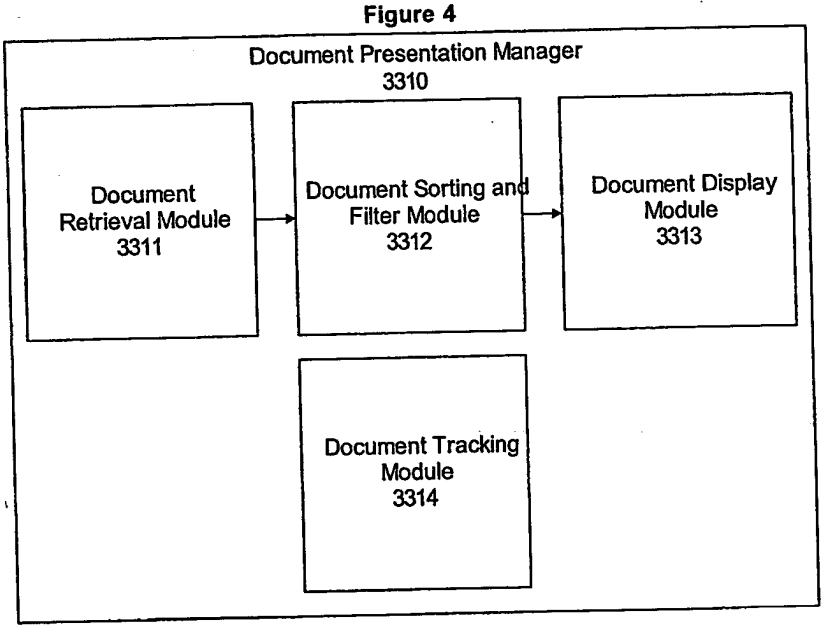
[Physician]
2200
Internet
2000
Fax Device 1100
Fax Device 1200
PSTN
(Public-Switched
Telephone Network)
1000
Fax-to-Email
System
1300
Web Server
3100
Fax Storage and Retrieval System
3000
Mail Server
3200
Fax Processing System
3300
Document
Presentation
Manager
3310
Document
Attribute
Manager
3320
Cryptography
Module
3330
Audit
Log
Module
3340
User
Module
3350
Customer
Information
Manager
3360
Fax
Routing
Module
3370
Fax
Receiving
Module
3380
Processor(s) 3305
Database
3400
Unique
Attribute
Data
Module
3410
Unique
Attr Set 1
[Patient
File]
3420
Unique
Attr Set 2
[Physician]
3430
Audit Log
Data
Module
3440
User
Data
Module
3450
Document
Data
Module
3460
Customer
Information
Data
Module
3470
Fax
Routing
Data
Module
3480
Document Storage
and Retrieval System
3500

Figure 3



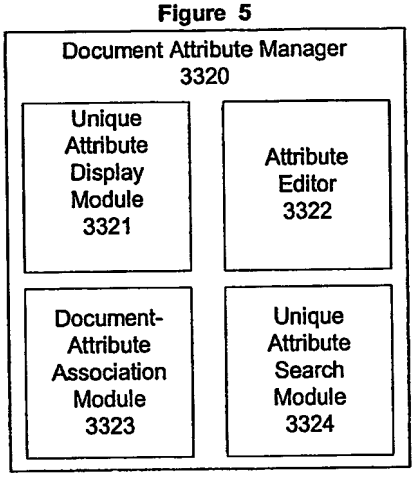
Document Presentation Manager 3310

Figure 4



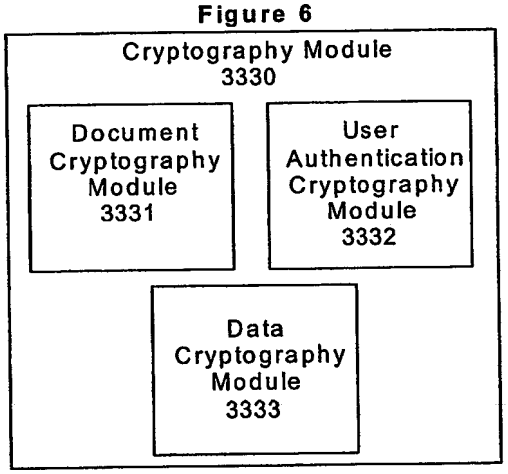
Document Attribute Manager 3320

Figure 5



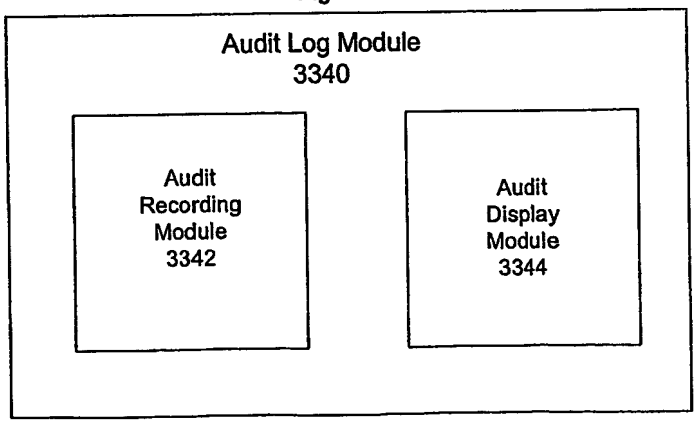
Cryptography Module 3330

Figure 6



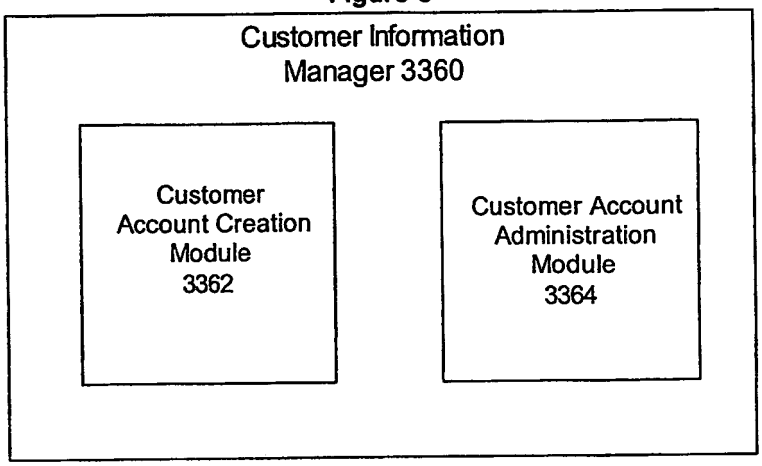
Audit Log Module 3340

Figure 7



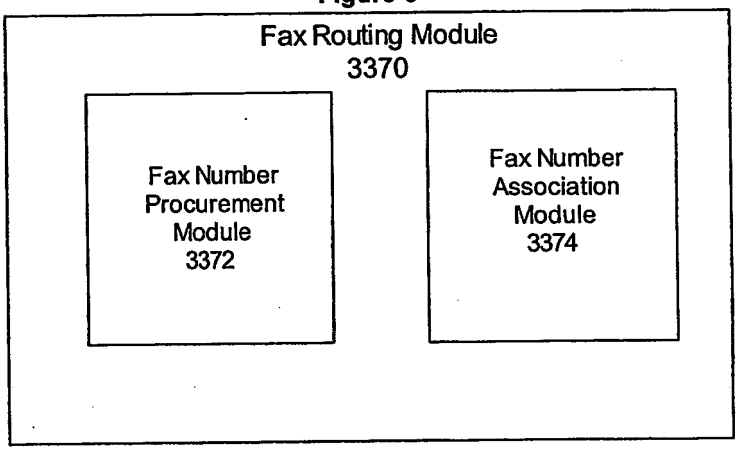
Customer Information Manager 3360

Figure 8



Fax Routing Module 3370

Figure 9



User Module 3350

Figure 10

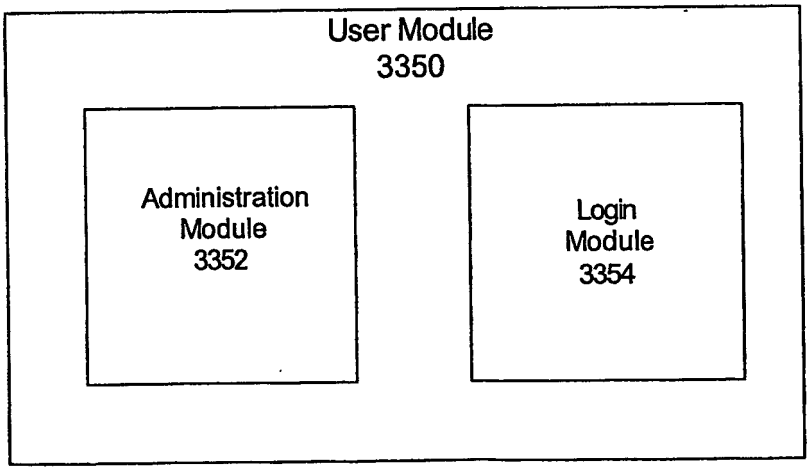


Figure 11

FaxRoutingInfo Table 3482

FaxRoutingInfold	FaxNumber	EmailAddress	CustomerId	DepartmentId	MemberId	Description
17	1-866-947-0512	001@fax.mmf.com	13	12	5	

Figure 12-A

Document Table 3462

DocumentId	CustomerId	FaxRoutingInfold	ReceivedDateTime	NoOfPages	ReceivedFrom
1029	13	17	03-Jan-01	2	212 982 0031

Figure 12-B

DocumentPages Table 3464

DocumentPageId	UniqueCaseId	DocumentId	DocumentPageNo	UniqueCasePageNo	State
10397	765	1029	1	1	3
10398	766	1029	2	1	3

Figure 13

Customer Table 3472

CustomerId	CustomerName	CustomerCode	SessionTimeout	ContactName	ContactEmail	ContactPhon
13	Test Hospital	TH01	30	Peter Paul	ppaul@cn.com	212-333-4444

Figure 14

User Table 3452

UserId	LoginID	Password	UserType	Firstname	Lastname	CustomerId	CustomerCode	Disable
107	kjohnson	E93o30033	1	Kelly	Johnson	13	TH01	0
108	john	w882jy729	0	John	Smith	13	TH01	0

Figure 15-A

AuditAction Table 3442

AuditActionId	Description	DataType
1	Document Reviewed	NULL
2	Document Filed	1
3	Unique Case Attribute1 Changed	2

Figure 15-B

AuditLog Table 3444

AuditLogId	UserId	AuditActionId	ObjectId
1092	108	1	1029
1093	108	3	1076

Figure 15-C

AuditDetailsChar Table 3446

AuditLogId	State	Data
1093	B	'Johson'
1093	A	'Smith'

Figure 15-D

AuditDetailsNum Table 3448

AuditLogId	State	Data
1821	B	45
1821	A	13

Figure 16

UniqueAttrSet1 (Patient File) Table 3420

UniqueCaseId	Firstname	Lastname	SSN	DateofBirth	ProcedureDate	PhysicianId	Keywords
3109	John	Smith	028871281	11-14-63	02-08-02	32	Knee repl.
3110	Marth	Stuart	901293822	02-22-43	02-09-02	32	Bypass

Figure 17

UniqueAttrSet2 (Physician) Table 3430

PhysicianId	Firstname	Lastname	UPIN
11	Patrick	Crane	A12345
32	Jeffrey	Siegel	B12983

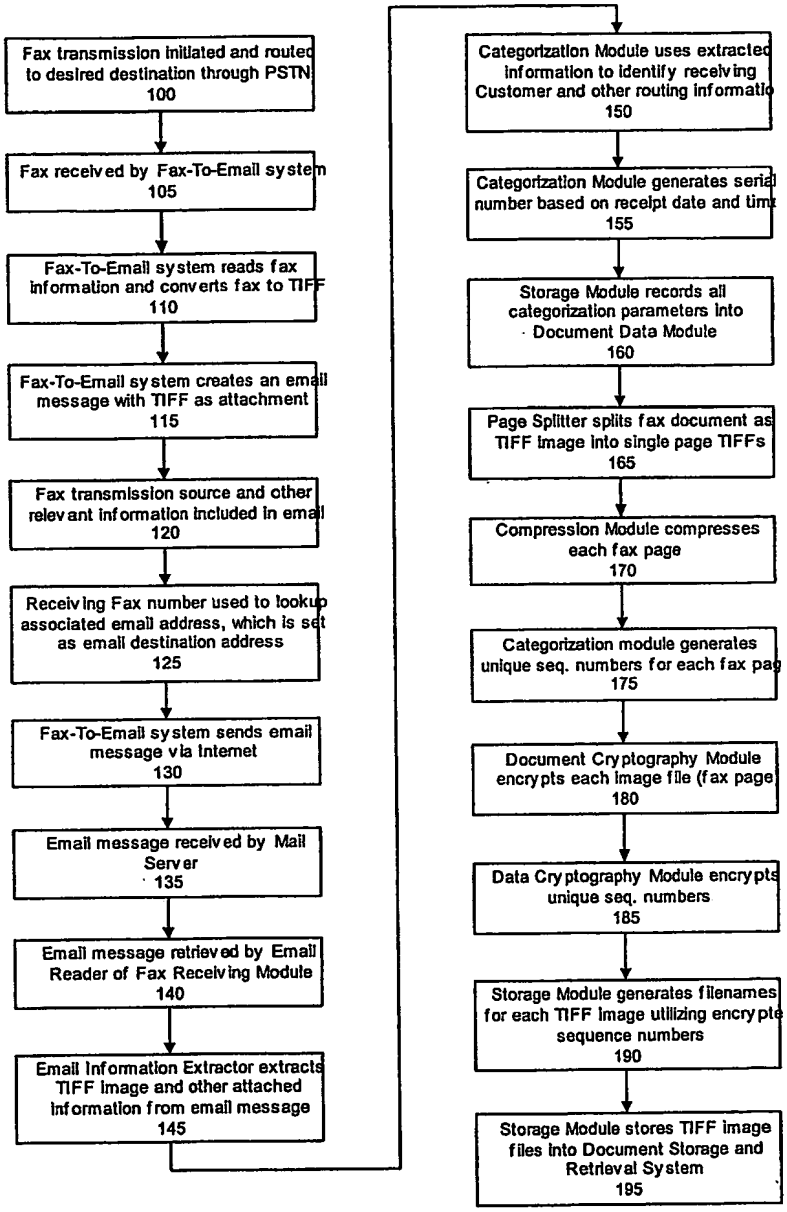
Figure 19

FaxToEmail Table 1302

FaxToEmailId	FaxNumber	EmailAddress
1	1-866-947-0512	001@fax.mmf.com

Fax Receiving and Storage

Figure 18



Document Display and Organization

Figure 20

Process Flow Chart

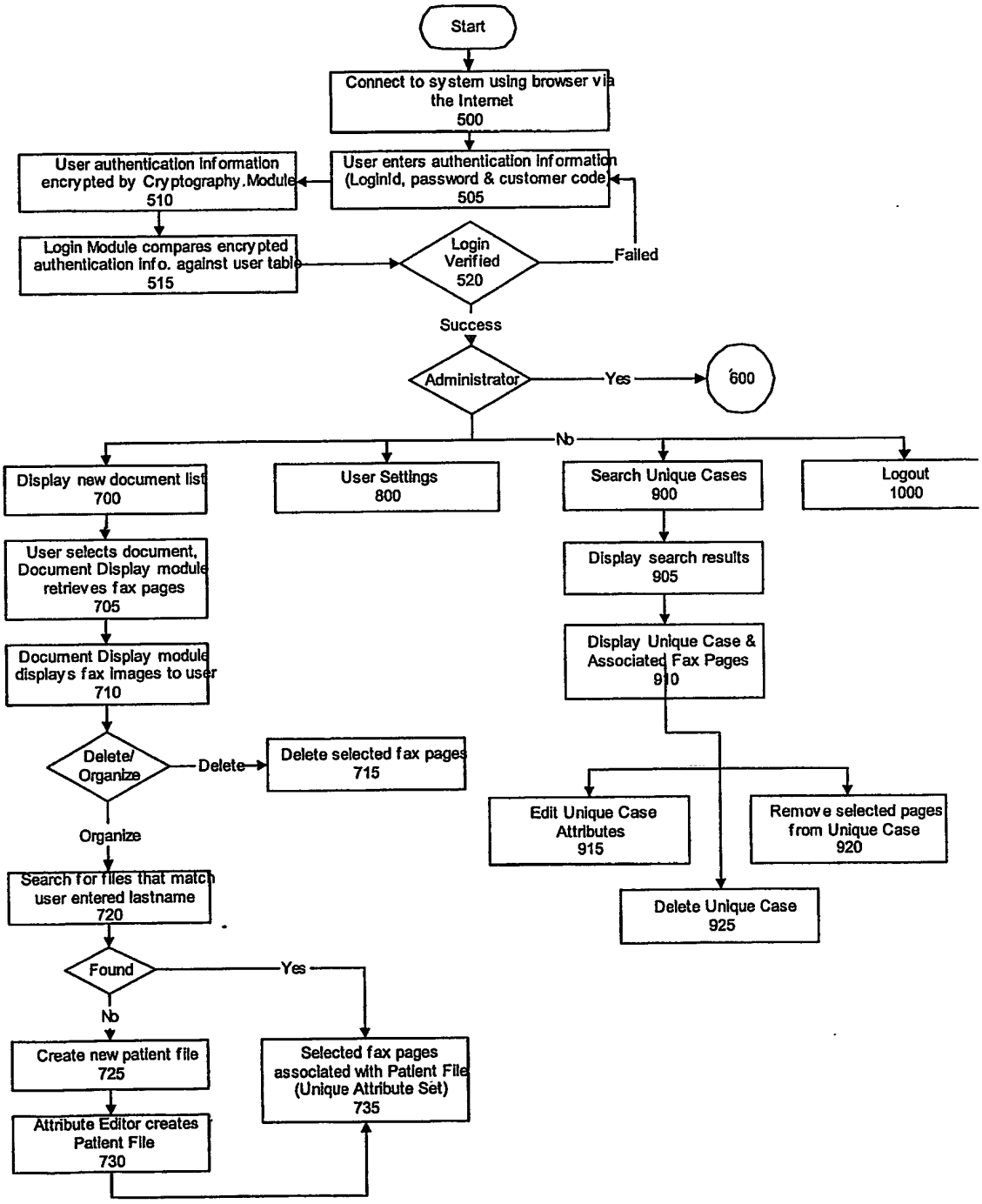


Figure 21

List of Incoming (un-reviewed) Faxes

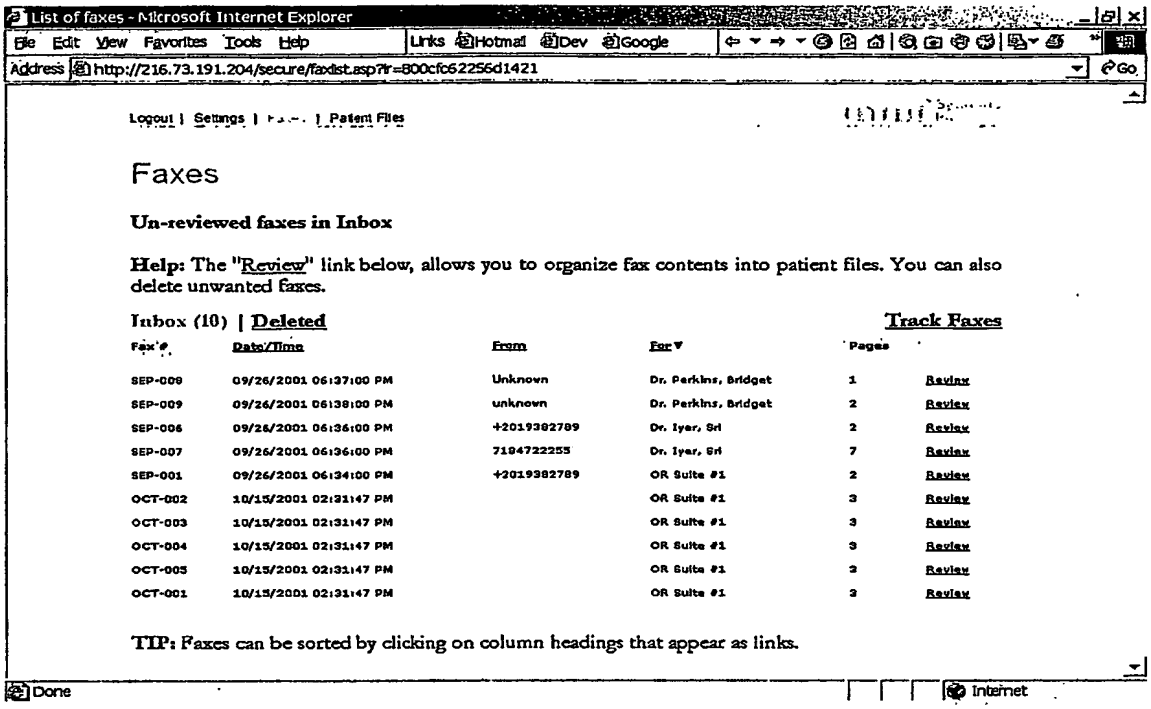


Figure 22

Viewing a Fax

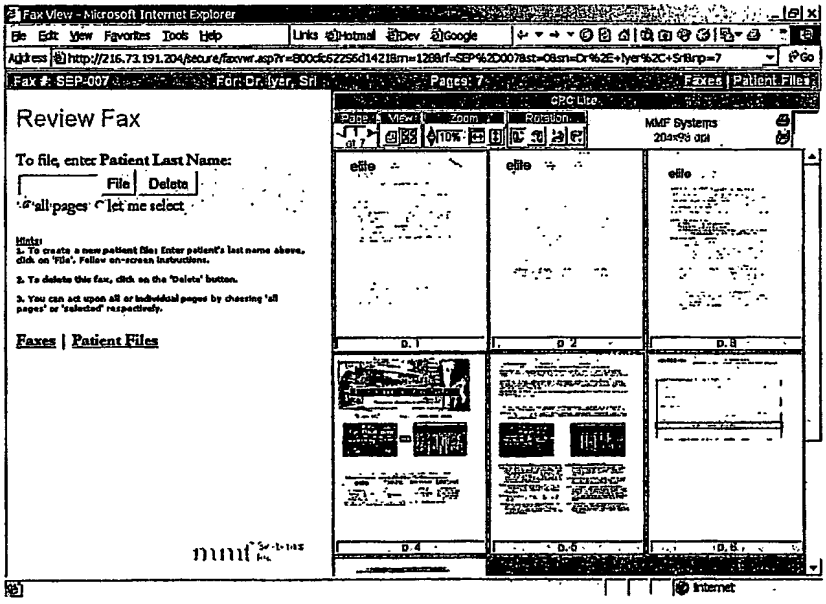


Figure 23

New Unique Attribute Set (Patient File)

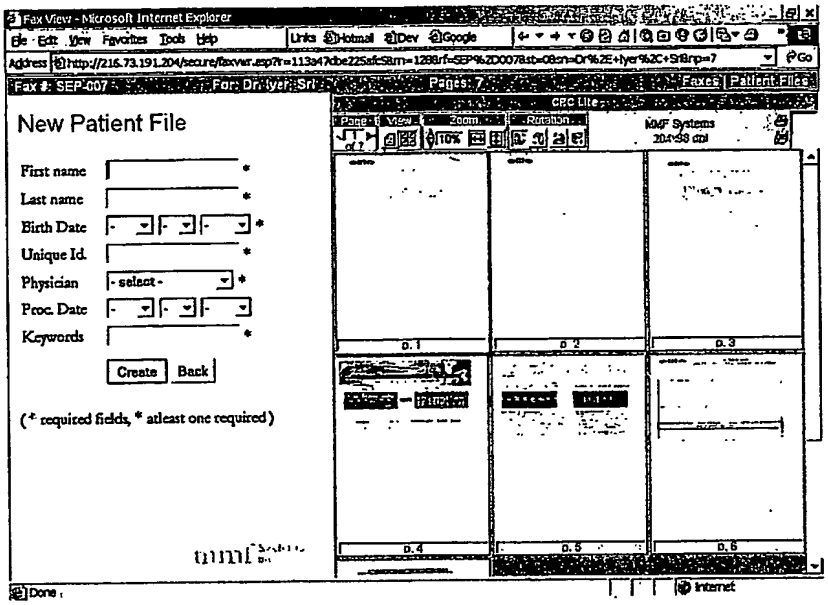


Figure 24

Unique Attribute Set (Patient File) Found

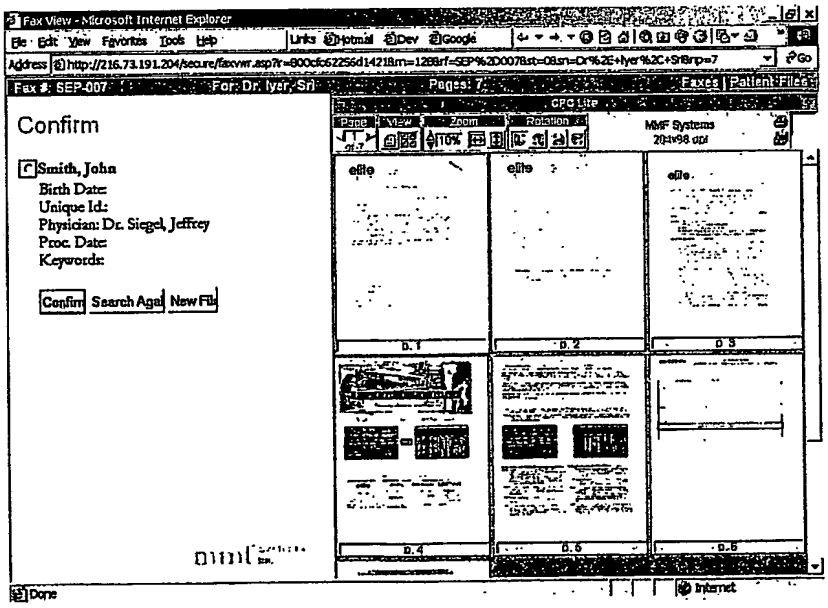


Figure 25

Search Unique Cases (Patient Files)

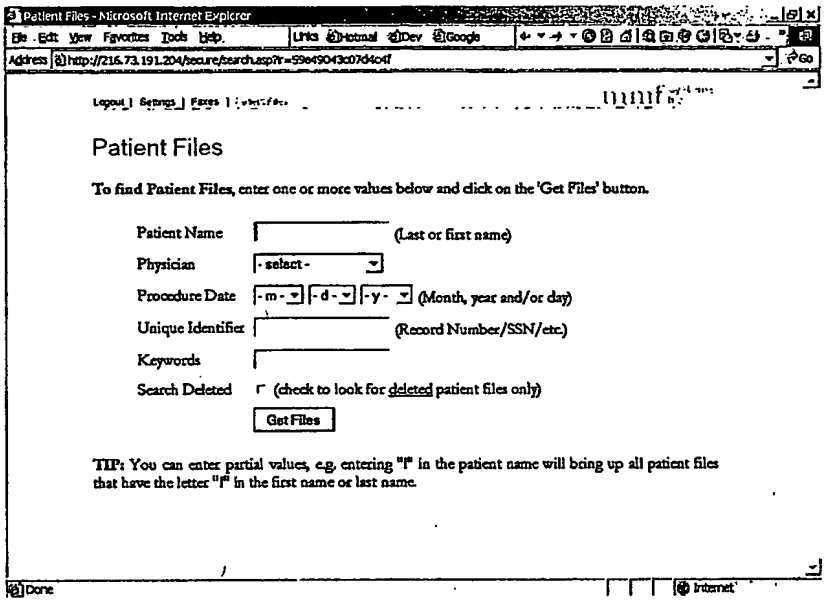
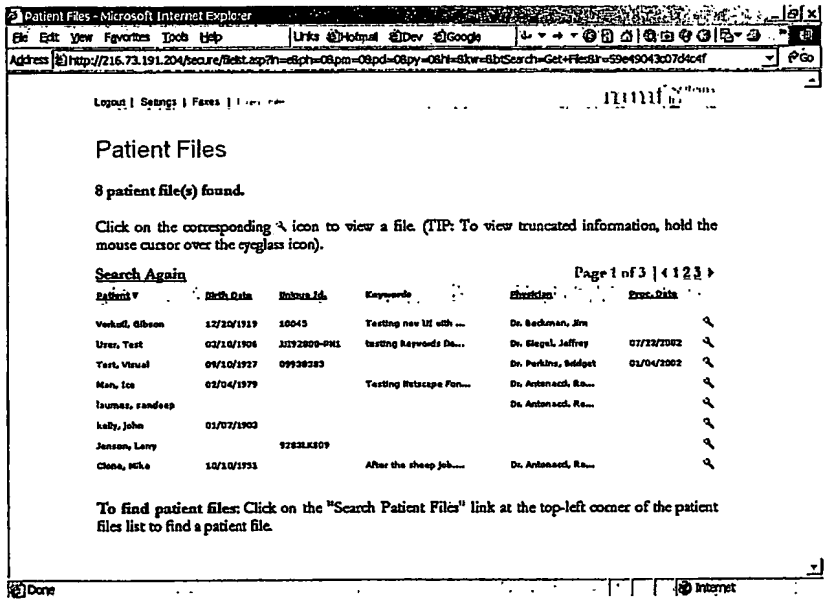


Figure 26

List of Unique Cases (Patient Files)



To find patient files: Click on the "Search Patient Files" link at the top-left corner of the patient files list to find a patient file.

Figure 27

View Unique Case (Patient File)

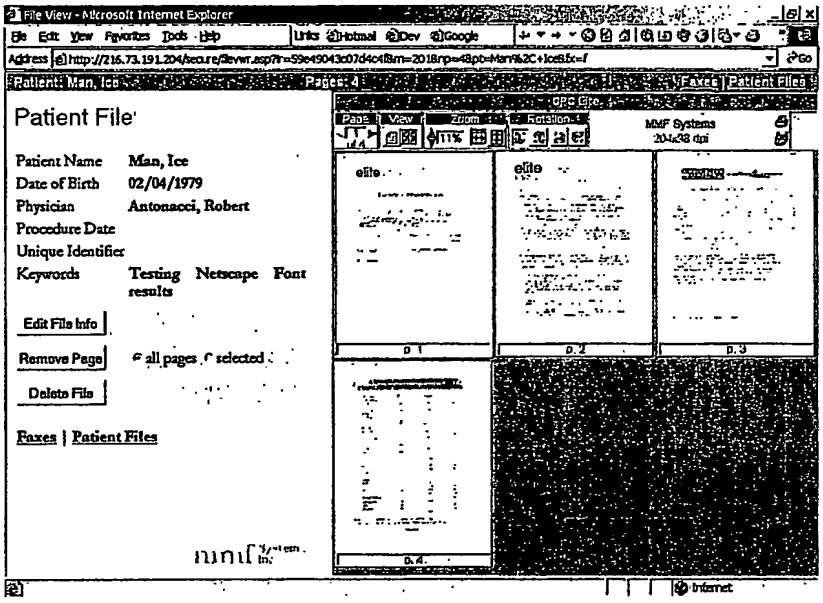


Figure 28

Edit Unique Case (Patient File) Attributes

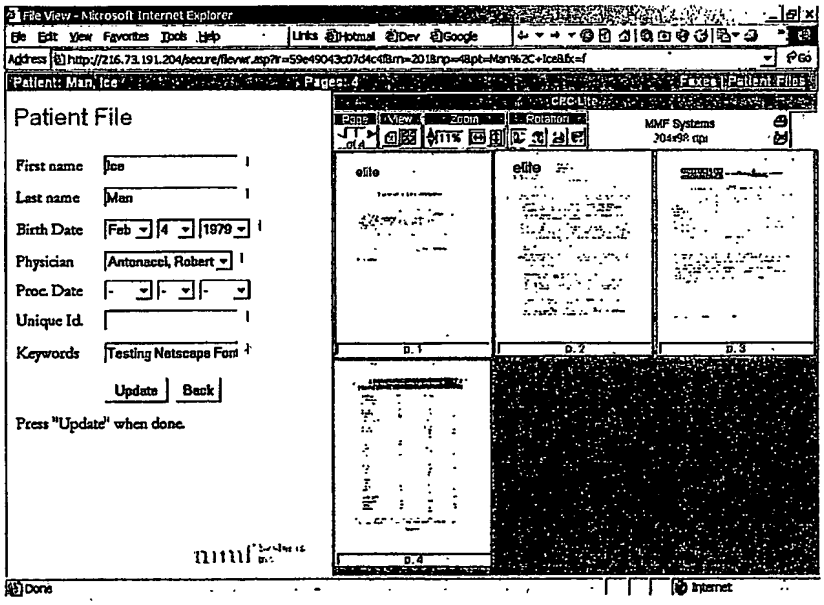


Figure 29

Hospital Procedural Information Flow (Base Case)

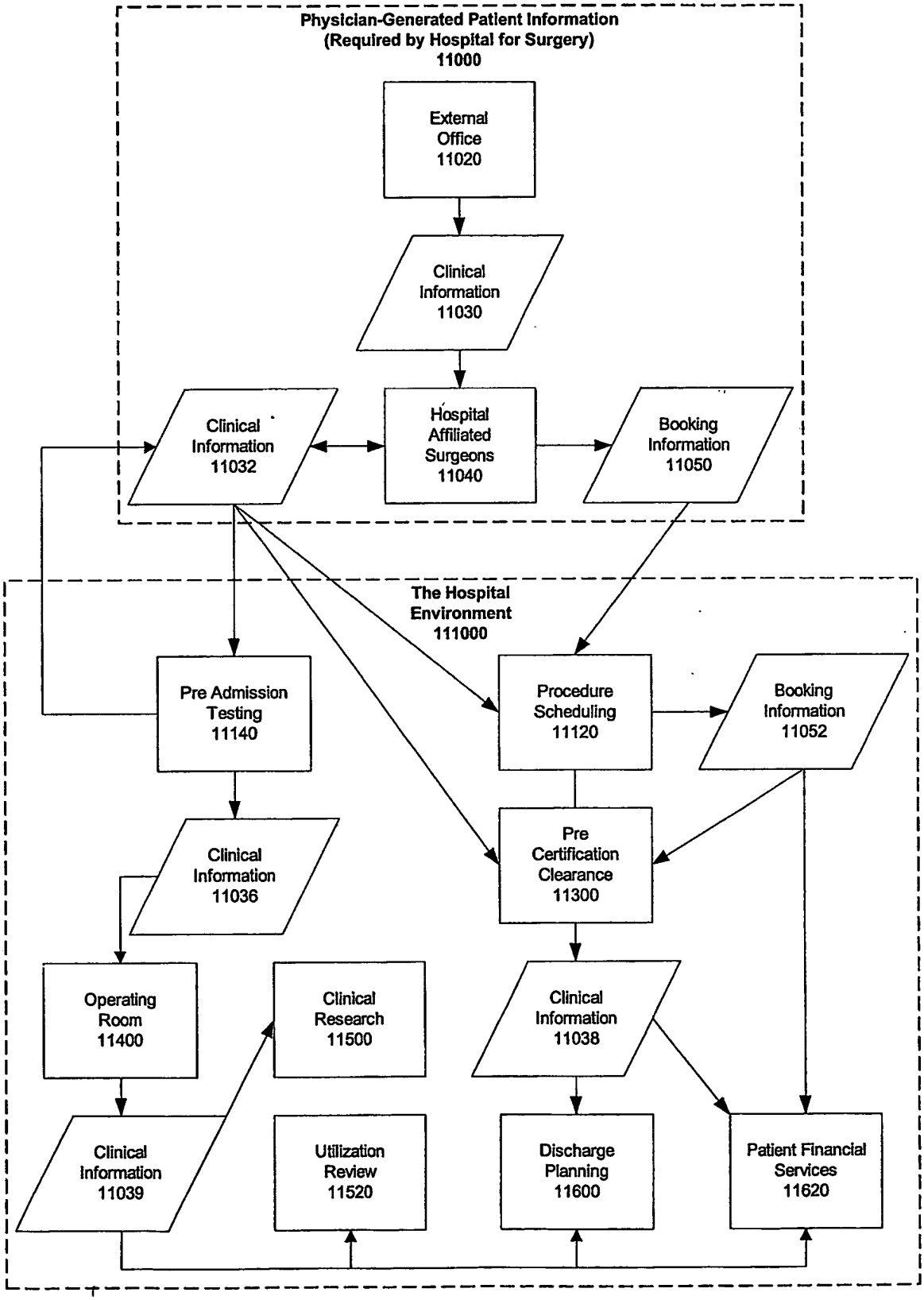
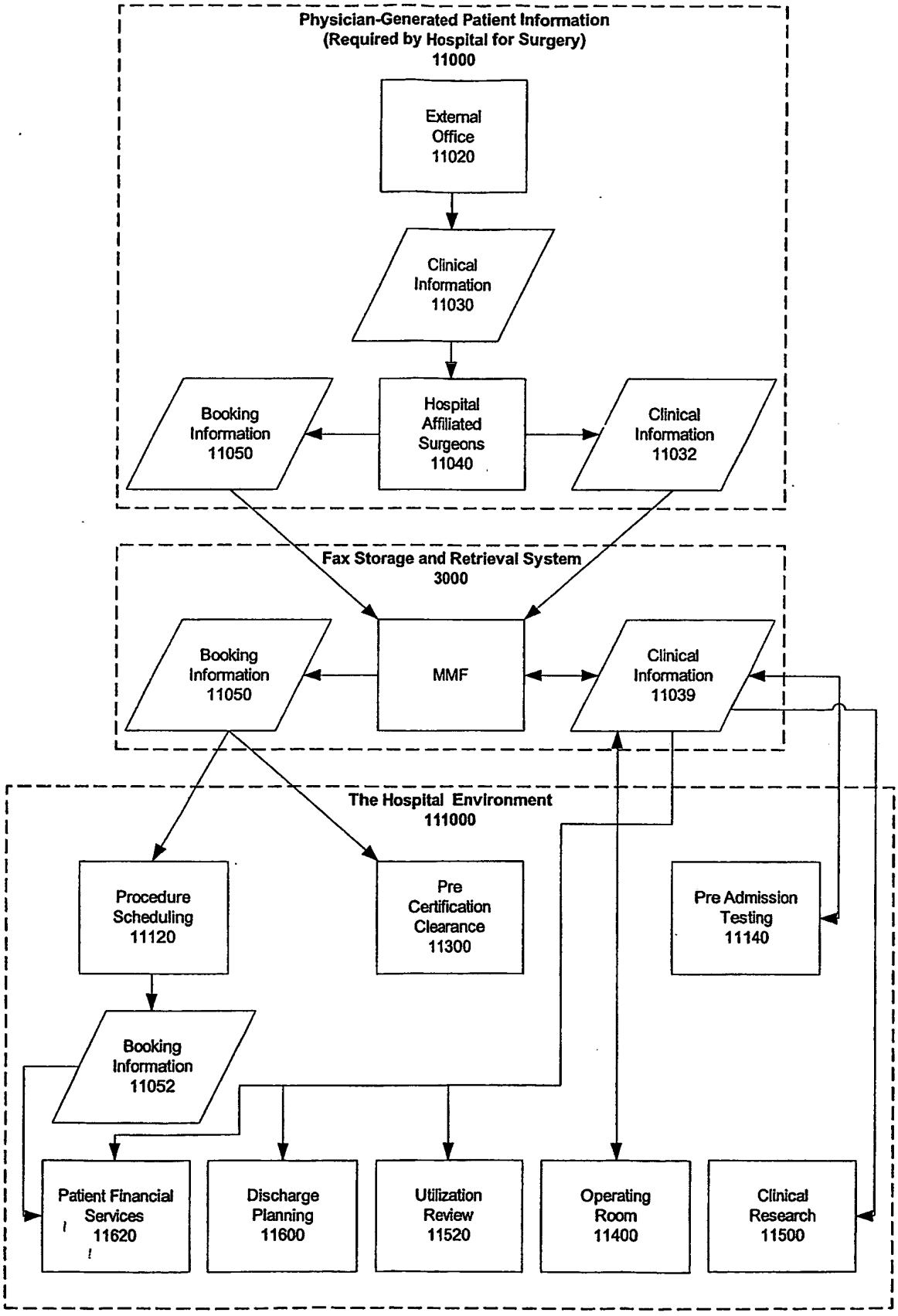


Figure 30

Hospital Procedural Information Flow (Post MMF)



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